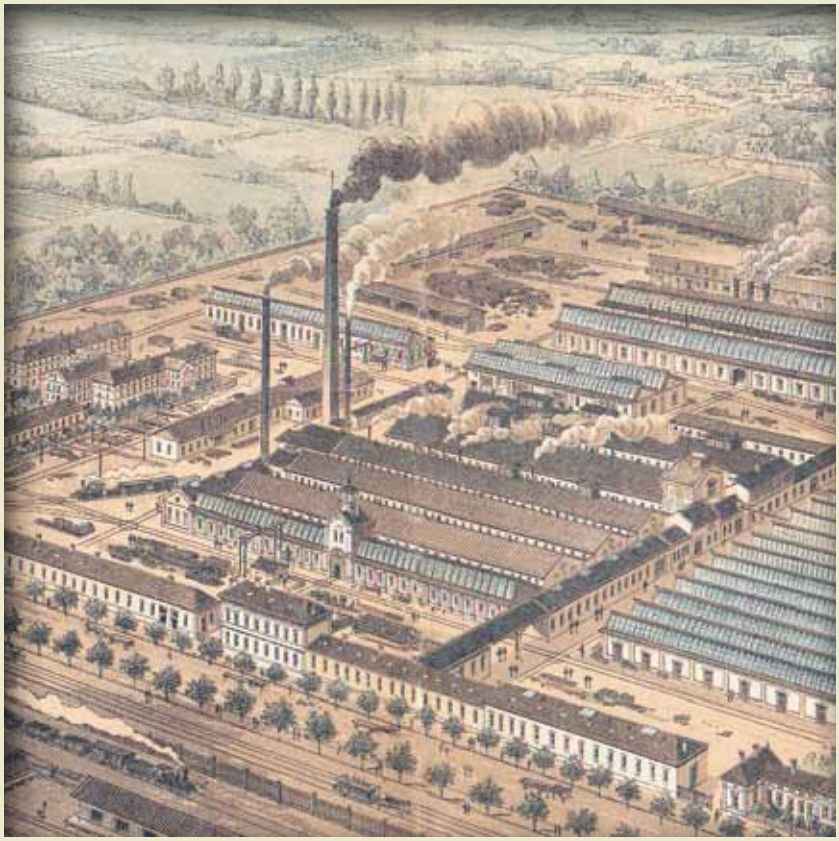
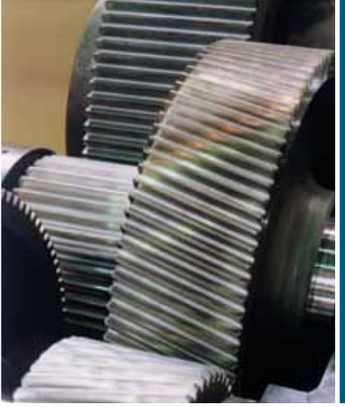
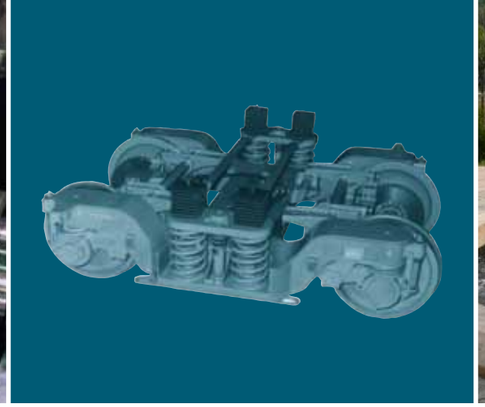


Ganz Holding Group








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FAVID



















Contents

Introduction

Organization structure of Ganz Holding

Subsidiaries:

Production

- Ganz Motor Ltd.
- Ganz Engineering and Energetics Machinery Ltd.
- Ganzeg Machinery and Steel Structure Manufacturing Ltd.

Trade, Marketing and Engineering

- Ganz Energetics Machinery Ltd.
- Ganz Hydro Ltd.
- Ganz Egypt Ltd.
- Technip-Ganz Machinery India Pvt. Ltd.

Services

- Ganz Szolgáltató Co. Ltd.
- Ganz Industrial Park Ltd.



Introduction



The legal predecessors of **Ganz Machinery Works Holding** group can be traced back to the beginning of the Hungarian industrialization in the middle of the 19th century, to the foundation of **Ganz in 1844** and of **MÁVAG in 1867.** The legal predecessors played a significant role in the history of Hungarian industrial development.

The historic path of the Ganz factory had been characterized by revolutionary technical inventions, patents such as the hard cast carriage wheel of **Ábrahám Ganz**, the hard cast rolling mill of **András Mechwart**, the distribution system operated by transformers connected in parallel of **Károly Zipernowsky, Ottó Bláthy, Miksa Déri**, the phase-changing electric locomotive of **Kálmán Kandó**, the hydraulic turbine of **Donát Bánki**, the carburator of Donát Bánki and the diesel engine of **György Jendrassik**.

Ganz Machinery Works Holding is one of the largest machinery works in Hungary, the products of which are related to the rail transport, power generation, water supply, management of water resources, urbanization and environmental protection therefore they play an important role in the formation of Hungarian infrastructure. Depending on the year and the subsidiary, today 50-90% of the products of the holding group are sold abroad in strong international competition. Our subsidiaries are also subcontractors for leading western companies.

Our products require high quality standards, continuous development, flexibility and great experience in manufacturing. The members of the holding group have been awarded the Quality Assurance registration according to **ISO 9001 and 9002** and the necessary special professional qualifications.

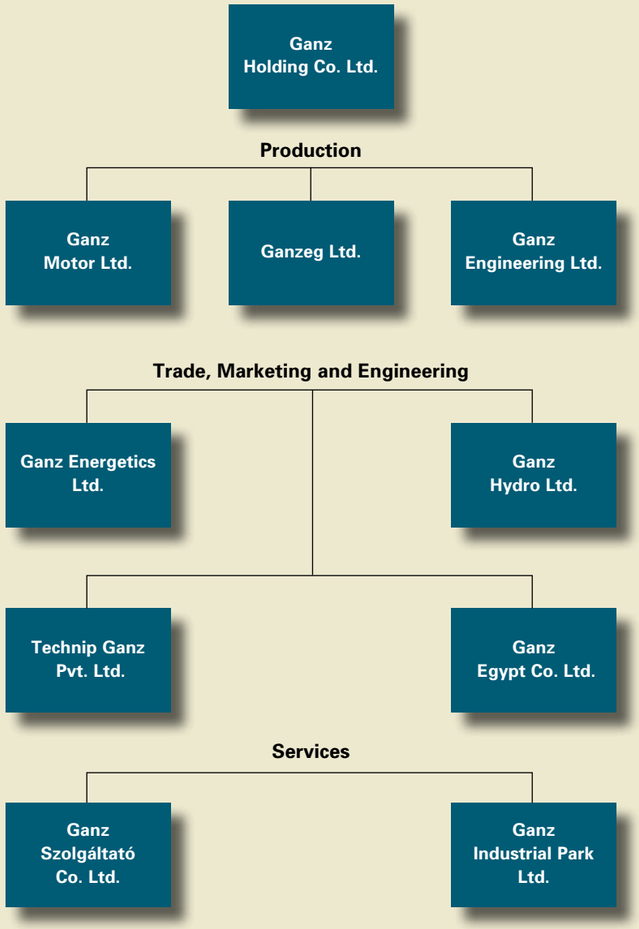
From the technological point of view the Holding group is characterized by tailor-made and small-series production. It has a comprehensive range of machine tools, highly qualified, educated and skilled workers and a flexible approach to enable it to satisfy the specific needs of its customers.

This introductory brochure is part of a complete set of documentation which consists of presentation of the subsidiaries of the holding group, the consolidated annual business report, informative leaflets about our products which you should not hesitate to ask for and study in the course of your work. By this action you will have taken the first step, possibly resulting in chosing our company while deciding to purchase a certain product manufactured by our group. Our subsidiaries and colleagues will do their utmost in order to make you satisfied with your choice in the long run.

Thanking You for your confidence.

Zoltán Fitos
Chairman–Managing Director
2011.

Organization structure of Ganz Holding





Production

Ganz Motor Limited

"Economy
+ Environmental protection
GANZ MOTOR"

Establishment of the company: 1990

Owner:
Ganz Holding Company Limited 100%

Registered capital:. . . . . HUF 222 m

Number of employees: 125

Sphere of activity:
Manufacture of complete vehicles for railway and urban transportation

- diesel-electric, diesel-hydraulic and electric locomotives
- diesel and electric multiple unit trainsets
- railbuses
- passenger coaches
- city trams
- underground cars
- freight wagons
- bogies GH 120, GH 250 and others















Manufacture of

- diesel and gas engines up to 2.3 MW
- generating sets
- co-generation plants
- power transmissions, gearboxes and axle drives for rail vehicles
- custom designed industrial gearboxes with helical and/or spiral bevel gears









Qualifications:
The company has been awarded the ISO 9001 Quality Assurance Registration and the Accreditation Certificate was awarded to the calibration laboratory by the International Accreditation Board in accordance with MSZ EN ISO/IEC 17025:2001. The company has been registered as approved vendor in the field of

- railways (e.g. MÁV Hungarian National Railways, ENR Egyptian National Railways, SNCF French National Railways, Bangladesh Railways)
- nuclear power plants (e.g. Nuclear Power Plant in Paks - Hungary)
- oil and gas industry (e.g. MOL Hungarian Oil and Gas Co.)







Ganz Engineering Limited

"= tradition, quality, reliability"

Establishment of the company: 1991

Owner:
CKBM Company Limited 51%
Ganz Holding Company Limited. 49%

Registered Capital: . . . . . .HUF 3.029,5 m

Number of employees: 125







Sphere of activity:
Manufacture and installation of

■ **Hydraulic machinery**

PUMPS

industrial use:
- industrial technological water supply
- processing water supply
- fire-fighting water supply
- cooling water systems
- dewatering of mines
- pumping of industrial mud
- dewatering of pits and basins

public services:
- potable water supply
- sewage handling
- flood pumps
- hot water circulating pumps for district heating
- booster, pressure pumps of pipelines

agriculture
- irrigation
- flood service, dewatering of fields
- drain pumps
- melioration

power generation
- cooling systems of power plants
- plant water supply
- safety water supply (of nuclear plants)
- fire-fighting systems
- condensate pumps

TURBINES
range: 50 kW - 50 MW
types:
- Pelton
- Francis
- Kaplan
- tube
- S-type
- custom-designed



HYDRAULIC BRAKES (according to the design of the world-famous company: ZÖLLNER)
range: 6,6 - 85 MW
impeller arrangement:
- single
- double impeller

■ **Nuclear power station machinery**
- fuel reloading manipulator for handling (reloading) fuel cassettes and different observation and handling tools related to the reloading technology of fuel used in nuclear power plants
- design, manufacture and site assembly of the main mechanical equipment of burnt out heating element store
- design, manufacture and putting into operation of equipment serving the research reactors

■ **Oil drilling equipment**

Diesel-hydraulic stationary drilling rigs
- hook load: 160, 200, 320 tons
- drilling depth capacity: 2500 - 6000 m

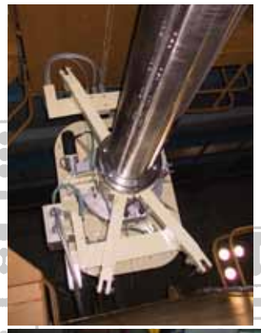




■ **Piston mud pumps**
- output: 235 - 955 kW
- nominal pressure: 400 bar

■ **Equipment of control and regulation**
- industrial controls
- distribution and control panels of 0.4 kV
- inverters, battery chargers, voltage regulators
- generating sets
- general agency, trade and after-sales service for HITACHI PLC's and inverters in Hungary
- professional measurements

Qualifications:
The company has been awarded the ISO 9001 Quality Assurance Registration and the company has also been qualified for being supplier to nuclear power plants.







Ganzeg Machinery and Steel Structure Manufactruring Limited

"The satisfaction of one customer brings the possibility of winning many other customers"

Short form of the company: . . . . . Ganzeg Limited

Establishment of the company: 1997

Owner:
Ganz Holding Company Limited 100%

Registered capital: . . . . . HUF 77 m

Number of employees: 175

Sphere of activity:

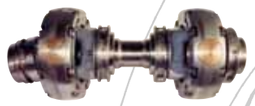
- Manufacture of high-tensile, micro-alloyed steel structures (machinery and mechanical equipment for various applications)
  - crane supports,
  - jib-arms of concrete pumps,
  - safety equipment for earth moving machines,
  - material handling equipment

- Manufacture of parts and components for railway vehicles and other machined parts

Qualifications:
The company has been awarded the ISO 9001 Quality Assurance Registration, welding qualifications issued by SLV Hannover for ST 37, ST 52, STE 890, STE 960 steel according to DIN 6700-2 standards, and qualification issued by TÜV Rheiland according to DIN EN 729-2.













Trade, Marketing and Engineering

Ganz Hydro Limited

"The garden of the neighbour
is greener – thanks to us"

Establishment of the company: 1993

Owners:
Ganz Holding Company Limited. . . . . 51 %
Private individual. 49%

Registered capital: . . . . . HUF 3 m

Number of employees: 18







Sphere of activity:
The activity of the company involves all those special areas which are related to the human environment and water, particularly

- **automatic irrigation (with equipment TORO/ France)**
  - private gardens
  - plantations
  - public domain
  - sports grounds
- **fountains**
  - laminar system
  - classic
  - floating fountains on living water
  - form-breaking, modern fountains
- **design and execution of water supply systems**
- **distribution and sale of spare parts**

Qualifications:
The company has been awarded the ISO 9001 Quality Assurance Registration.







Ganz Egypt Limited

„Always on the top of the pyramid"

Establishment of the joint-venture:
Egypt is a traditional market for Ganz. The first pump had been delivered to Egypt more than 70 years ago and during the past 15–20 years Ganz built approx. 200 pumping stations there. During the past few decades Ganz had its own commercial office in Cairo. A staff of engineers and technicians of Ganz is continuously present at site in order to execute the erection supervision of the equipment. In 1994, the commercial office ceased to exist and parallelly, a joint-venture had been established with Hungarian and Egyptian private individuals for a widened sphere of activity. The joint-venture plays an important role in the field of representation, main-contracting and export. The joint-venture was registered in Cairo on 9th September 1993.

Owners:
Ganz Holding Company Limited 26%
Hungarian and Egyptian private individuals . .37% – 37%

Registered capital: . . . . . 50 000 EGP

Sphere of Activity:

- trade
- engineering
- marketing

Address:
26, July Tower Lebanon Square
Mohandessin
Cairo

Tel: (202) 3036693, 3039528
Fax: (202) 3036693







Technip Ganz Machinery India Pvt. Ltd.

"Our energy is also yours"

Establishment of the joint-venture:
It was more than 40 years ago that Ganz delivered the first hydraulic turbines to India, to Mohora and Ganderbal Power Stations, which had been followed by the supply of further 30 turbines until today. Ganz delivered to India the hydraulic turbine of the greatest unit capacity ever manufactured by Ganz, the 6-jet Pelton turbine which was delivered to Shanan hydro-power station in 1974. India is considered by Ganz of strategic importance regarding the future. During the past decades Ganz had its own commercial office in Delhi. Many experts of Ganz took part at the site erections and also a number of Indian experts came to Ganz to be trained for the operational tasks. We have established a joint-venture with the Indian Technip Impex Pvt. Ltd. under the name of Technip Ganz Machinery India Pvt. Ltd. in order to increase our chances for business and our competitiveness by the involvement of local manufacturers. The joint-venture had been registered in New Delhi on 17th May 1993.

Owners:
Ganz Holding Company Limited 50%
Technip Impex Pvt. Ltd. 50%

Registered capital: . . . . . 1 million Indian Rupees

Sphere of activity:
- trade
- engineering
- marketing

Address:
409 Chiranjeev Tower,
43 Nehru Place
New Delhi 110019

Tel.: (91 11) 41608335/6/7/8
Fax: (91 11) 41611810







Services

Ganz Szolgáltató Company Limited

"We are your partner in energy"

Establishment of the company: 1990
Owners:
Ganz Holding Company Limited 65,3%
Ganz Acélszerkezet Company Limited
(under liquidation) 15,7%
Hungarian State represented by
Kincstári Vagyoni Igazgatóság 13%
REORG Faktor Pénzügyi Zrt. 1,1%
Private individuals 4,9%

Registered capital: . . . . . HUF 461.8 m

Number of employees: 45



Sphere of activity:
The basic activity of the company is to satisfy the energy requirements of the companies operating at the former Ganz-MÁVAG site in the following areas:

- electric power supply
- natural gas supply
- water supply, industrial water supply, conducting of sewage water
- maintenance activities

– execution of safety revision of natural gas
– installation of energy consumption counters – sub-meters
– installation and maintenance of water, gas, electric power networks and technological systems, etc.

Qualifications:
The company has been awarded the ISO 9002 Quality Assurance Registration.









Ganz Industrial Park Limited

"Parking is easy with us"

Establishment of the company: 2000
- Ganz Industrial Park Limited can be found in Zalaegerszeg, in the centre of the "Eastern Industrial Area", some hundred meters from the junction of the main roads No. 74 and 76.
- The area of the industrial park is 10 hectares and it is equipped with buildings of 25.000 square meters, the majority of which is currently being used for industrial purposes.
- The area has excellent infrastructure and can be flexibly adapted to the needs of our potential partners.

Owner:
Ganz Holding Company Limited 100%

Registered capital: . . . . . .HUF 350 m

Sphere of activity:
Buildings and parts of buildings suitable for offices, storage and industrial activities, to be made available (rented) including the following facilities:

- setting up the required infrastructure
- guarding of the area
- telephone and fax lines, e-mail, Internet acess
- conference room, organization of meetings
- provision of medical services
- central parking lot
- cleaning, waste-collection
- changing rooms and shower-facilities
- organization and coordination of logistic services
- maintenance, day and night duty
- warehousing, material handling
- consultancy in legal and insurance-related issues
- assistance in the preparation of small-enterpreneurial bids, etc.



List of Subsidiaries

■ Ganz Holding Company Limited
1087 Budapest, Kőbányai út 21.
Tel: (+36 1) 299 8532 Fax: (+36 1) 299 8536

■ Ganz Motor Limited
1087 Budapest, Kőbányai út 21.
Tel: (+36 1) 299 8551 Fax: (+36 1) 299 8552

■ Ganz Engineering and Energetics Machinery Ltd.
1087 Budapest, Kőbányai út 21.
Tel: 299 8500 Fax: 299 8562

Office:
1082 Budapest,Vajdahunyad utca 46-48.
Tel: (+36 1) 872 5800 Fax: (+36 1) 872 5801

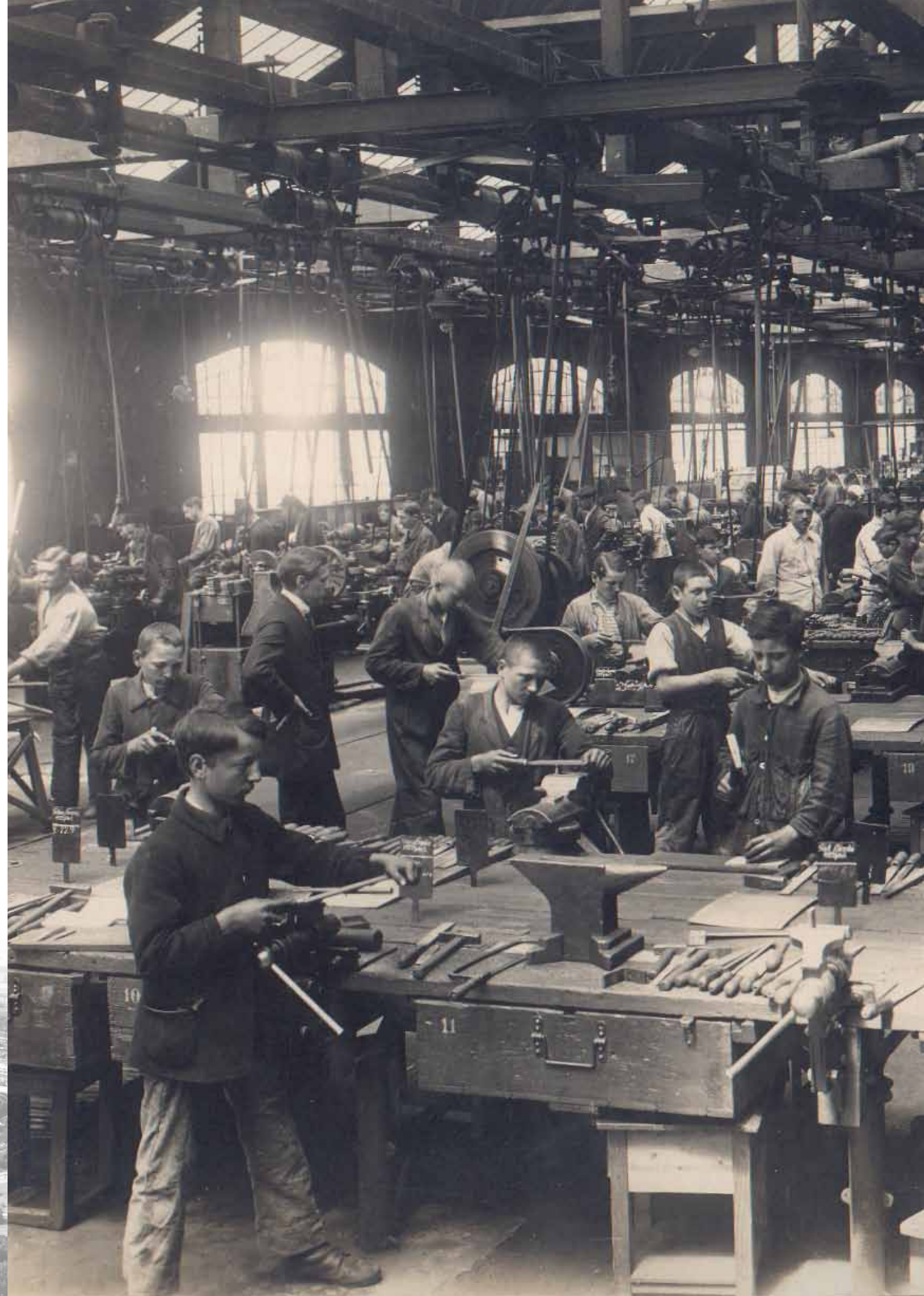
■ Ganzeg Limited
8900 Zalaegerszeg, Balatoni út 11.
Tel: (+36 92) 597 120 Fax: (+36 92) 597 160

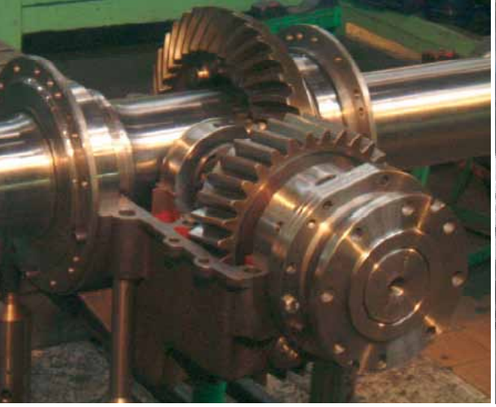
■ Ganz Hydro Limited
1087 Budapest, Könyves Kálmán körút 76.
Tel: (+36 1) 210 0463, 323 0563, 477 2496
Fax: (+36 1) 477 2497

■ Ganz Szolgáltató Co. Limited
1089 Budapest, Vajda Péter utca 12.
Tel/Fax: (+36 1) 210 1142

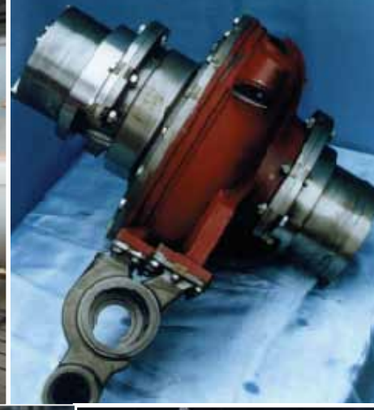
■ Ganz Industrial Park Limited
8900 Zalaegerszeg, Balatoni út 11.
Tel: (+36 92) 597 120 Fax: (+36 92) 597 160

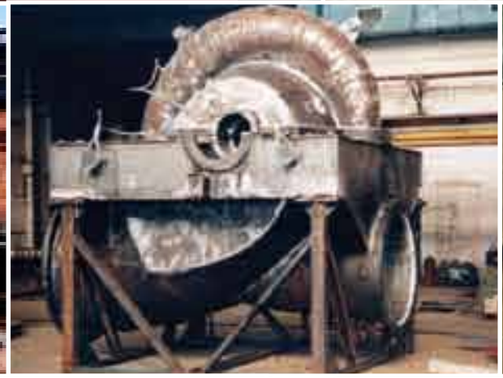
















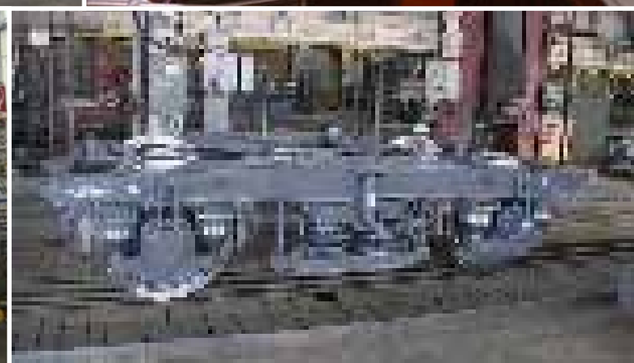












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Fax: +36 1 299-8536
www.ganz-holding.hu